



CASE 4:31612A/USN

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF

Art Unit: 1614

COHEN ET AL.

APPLICATION NO: 09/964,899

FILED: SEPTEMBER 27, 2001

FOR: IDENTIFICATION OF GENES INVOLVED IN ALZHEIMER'S
DISEASE USING DROSOPHILA MELANOGASTER

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Applicants believe this paper is being filed before the mailing date of a first Office Action on the merits, and so under 37 C.F.R. §1.97(b)(3) no fees are required. If a fee is deemed to be required, the Commissioner is hereby authorized to charge such fee to Deposit Account No. 19-0134.

In accordance with 37 C.F.R. §1.56, applicants wish to call the Examiner's attention to the references cited on the attached form(s) PTO-1449.

Copies of these references are enclosed herewith.

The Examiner is requested to consider the foregoing information in relation to this application and indicate that each reference was considered by returning a copy of the initialed PTO 1449 form(s).

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Diane Tso", is written above a horizontal line.

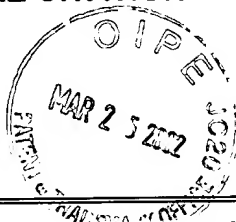
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA	5,795,963	8/18/98	Mullan			
	AB	5,811,633	9/22/98	Wadsworth et al.			
	AC	5,840,540	11/24/98	St. George-Hyslop et al.			
	AD	5,891,991	4/6/99	Wasco et al.			
	AE	5,986,054	11/16/99	St. George-Hyslop et al.			
	AF						
	AG						
	AH						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO	
	AM	WO 01/85912 A2	11/15/01	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	AN	WO 94/00569	1/6/94	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	AO	WO 98/54300	12/3/98	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	AP						<input type="checkbox"/>	<input type="checkbox"/>
	AQ						<input type="checkbox"/>	<input type="checkbox"/>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	AR	Abrams et al., "Programmed cell death during Drosophila embryogenesis," Development, Vol. 117, pp. 29-43 (1993)
	AS	Abstract, Finelli et al., "Alzheimer's Abeta peptide induces rough eye phenotype in Drosophila," 42nd Annual Drosophila Research Conference, March 2001
	AT	Abstract, Finelli et al., "Beta-Amyloid Induced Neurodegeneration in the Drosophila Eye," Neurobiology of Drosophila, CSHL October 2001

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AA	Abstract, Finelli et al., "Genetic analysis of Alzheimer's-related pathways in Drosophila," Therapeutic Opportunities in Neurodegenerative Diseases, CSHL 2000
AB	Abstract, Lanoue et al., "Dominant phenotypes caused by overexpression of human amyloid precursor protein (APP) in flies," 41st Annual Drosophila Research Conference, March 2000
AC	Abstract, Lanoue, et al., "Dominant phenotypes caused by overexpression of human amyloid precursor protein (APP) in flies," World Alzheimer Congress 2000
AD	Anderton et al., "Does dysregulation of the Notch and wingless/Wnt pathways underlie the pathogenesis of Alzheimer's disease? Molecular Medicine Today, Vol. 6, pp. 54-59 (2000)
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AH	Bertram et al., "Evidence for Genetic Linkage of Alzheimer's Disease to Chromosome 10q," Science, Vol. 290, pp. 2302-2303 (2000)
AI	Blochlinger et al., "Primary structure and expression of a product from cut, a locus involved in specifying sensory organ identity in Drosophila," Nature, Vol. 333, pp. 629-635, (1988)
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AL	Brand et al., "Targeted gene expression as a means of altering cell fates and generating dominant phenotypes," Development, Vol. 118, p. 401-415 (1993)
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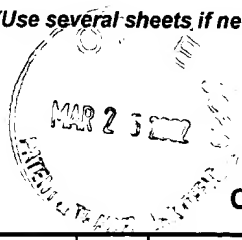
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AE	Citron et al., "Excessive production of amyloid beta-protein by peripheral cells of symptomatic and presymptomatic patients carrying the Swedish familial Alzheimer disease mutation," Proc. Natl. Acad. Sci., Vol. 91, pp. 11993-11997 (1994)
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AE	Engels, W.R., "A trans-Acting Product Needed for P Factor Transposition in Drosophila," Science, Vol. 226, pp. 1194-1196 (1984)
AF	Ertekin-Taner, et al., "Linkage of Plasma ABeta42 to a Quantitative Locus on Chromosome 10 in Late-Onset Alzheimer's Disease Pedigrees," Science, Vol. 290, pp. 2303-2304 (2000)
AG	Feany et al., "A Drosophila model of Parkinson's disease," Nature, Vol. 404, pp. 394-398 (2000)
AH	Fernandez-Funez et al., "Identification of genes that modify ataxin-1-induced neurodegeneration," Nature, Vol. 408, pp. 101-106 (2000)
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AJ	Fortini et al., "Modeling human neurodegenerative diseases in Drosophila on a wing and a prayer," Trends Genet., Vol. 16, pp. 161-167 (2000)
AK	Fossgreen et al., "Transgenic Drosophila expressing human amyloid precursor protein show gamma-secretase activity and a blistered-wing phenotype," Proc. Natl. Acad. Sci. USA, Vol. 95, pp. 13703-13708 (1998)
AL	Fraser et al., "Ionic effects of the Alzheimer's disease beta-amyloid precursor protein and its metabolic fragments," Trends Neurosci., Vol. 20(2), pp. 67-72 (1997)
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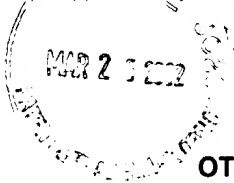
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AJ	Hartley et al., "Protofibrillar Intermediates of Amyloid Beta-Protein Induce Acute Electrophysiological Changes and Progressive Neurotoxicity in Cortical Neurons," The Journal of Neuroscience, Vol. 19(20), p. 8876-8884 (1999)
AK	Hartmann et al., "Distinct sites of intracellular production for Alzheimer's disease ABeta40/42 amyloid peptides," Nature Medicine, Vol. 3(9), pp. 1016-1020 (1997)
AL	Hay et al., "Expression of baculovirus P35 prevents cell death in Drosophila," Development, Vol. 120, pp. 2121-2129 (1994)
AM	Hay et al., "P element insertion-dependent gene activation in the Drosophila eye," Proc. Natl. Acad. Sci., Vol. 94, pp. 5195-5200 (1997)
AN	Hellstroem-Lindahl et al., "Nicotinic acetylcholine receptors during prenatal development and brain pathology in human aging," Behavioural Brain Research, Vol. 113, pp. 159-168 (2000)

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AA	Hellstroem-Lindahl E., "Modulation of beta-amyloid precursor protein processing and tau phosphorylation by acetylcholine receptors," European Journal of Pharmacology, Vol. 393, pp. 255-263 (2000)
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AD	Hyman et al., "Role of the Low-density Lipoprotein Receptor-Related Protein in Beta-Amyloid Metabolism and Alzheimer Disease," Arch. Neurol. Vol. 57, pp. 646-650 (2000)
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AF	Jackson et al., "Polyglutamine-Expanded Human Huntingtin Transgenes Induce Degeneration of Drosophila Photoreceptor Neurons," Neuron, Vol. 21, pp. 633-642 (1998)
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AL	Kellum et al., "A Position-Effect Assay for Boundaries of Higher Order Chromosomal Domains," Cell, Vol. 64, pp. 941-950 (1991)
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

AA	Kordeli et al., "AnkyrinG; "A New Ankyrin Gene with Neural-Specific Isoforms Localized at the Axonal Initial Segment and Node of Ranvier," "The Journal of Biological Chemistry," Vol. 270(5), pp. 2352-2359 (1995)
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AE	Lambert et al., "Diffusible, nonfibrillar ligands derived from ABeta1-42 are potent central nervous system neurotoxins," Proc. Natl. Acad. Sci. USA, Vol. 95, pp. 6448-6453 (1998)
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AH	Lorenzo et al., "Beta-Amyloid neurotoxicity requires fibril formation and is inhibited by Congo red," Proc. Natl. Acad. Sci., Vol. 91, pp. 12243-12247 (1994)
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AF	Mukherjee et al., "Insulysin Hydrolyzes Amyloid BetaPeptides to Products That Are Neither Neurotoxic Nor Deposit on Amyloid Plaques," J. Neurosci., Vol. 20, pp. 8745-8749 (2000)
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AH	Murayama et al., "Enhancement of amyloid Beta 42 secretion by 28 different presenilin 1 mutations of familial Alzheimer's disease," Neurosci. Lett., Vol. 265, pp. 61-63 (1999)
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AJ	Näslund et al., "Correlation Between Elevated Levels of Amyloid beta-Peptide in the Brain and Cognitive Decline," J.A.M.A., Vol. 283, pp. 1571-1577 (2000)
AK	Ninkina et al., "Organization, expression and polymorphism of the human persyn gene," Human Molecular Genetics, Vol. 7(9), pp. 1417-1424 (1998)
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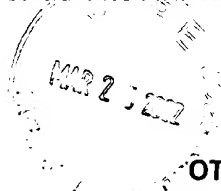
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AB	Pradier et al., "Mapping the APP/Presenilin (PS) Binding Domains: The Hydrophilic N-Terminus of PS2 is Sufficient for Interaction with APP and Can Displace APP/PS1 Interaction," Neurobiology of Disease, Vol. 6, pp. 43-55 (1999)
AC	Price, D., "New order from neurological disorders," Nature, Vol. 399, pp. A3-A5 (1999)
AD	Qiu et al., "Degradation of Amyloid Beta-Protein by a Serine Protease-Alpha Macroglobulin Complex," The Journal of Biological Chemistry, Vol. 271(14), pp. 8443-8451 (1996)
AE	Robertson et al., "A Stable Genomic Source of P Element Transposase in Drosophila melanogaster," Genetics, Vol. 118, pp. 461-470 (1988)
AF	Rorth et al., "Systematic gain-of-function genetics in Drosophila," Development, Vol. 125(6), pp. 1049-1057 (1998)
AG	Rosen et al., "A Drosophila gene encoding a protein resembling the human beta-amyloid protein precursor," Proc. Natl. Acad. Sci., Vol. 86, pp. 2478-2482 (1989)
AH	Rubin et al., "Comparative Genomics of the Eukaryotes," Science, Vol. 287, pp. 2204-2215 (2000)
AI	Rubin et al., "Genetic Transformation of Drosophila with Transposable Element Vectors," Science, Vol. 218, pp. 348-353 (1982)
AJ	Schneider-Maunoury et al., "Disruption of Krox-20 Results in Alteration of Rhombomeres 3 and 5 in the Developing Hindbrain," Cell, Vol. 75, pp. 1199-1214 (1993)
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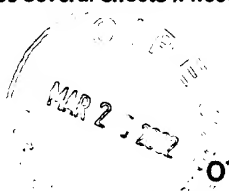
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AB	Skovronsky et al., "Detection of a Novel Intraneuronal Pool of Insoluble Amyloid Beta Protein that accumulates with Time in Culture," J. Cell Biol., Vol. 141, pp. 1031-1039 (1998)
AC	Smale et al., "Evidence for Apoptotic Cell Death in Alzheimer's Disease," Exp. Neurol., Vol. 133, pp. 225-230 (1995)
AD	Spradling et al., "The Effect of Chromosomal Position on the Expression of the Drosophila Xanthine Dehydrogenase Gene," Cell, Vol. 34, pp. 47-57 (1983)
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AA	Torroja et al., "The Drosophila beta-Amyloid Precursor Protein Homolog Promotes Synapse Differentiation at the Neuromuscular Junction," The Journal of Neuroscience, Vol. 19(18), pp. 7793-7803 (1999)
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AC	Tucker et al., "The Plasmin System Is Induced by and Degrades Amyloid-Beta Aggregates," The Journal of Neuroscience, Vol. 20(11), pp. 3937-3946 (2000)
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